

XP-002218565

AN - 1987-317533 [45]

- A - [001] 014 028 04- 074 077 081 153 175 185 191 231 316 332 341 359 398
402 408 409 414 42- 431 432 443 445 473 477 48- 51& 52& 532 533 54&
541 549 57& 57- 575 583 589 595 597 600 61- 681 688
- [002] 014 028 04- 055 056 153 175 185 191 231 316 332 341 359 398 402
408 409 414 42- 431 432 443 445 473 477 48- 51& 52& 532 533 54& 541
549 57& 57- 575 583 589 595 597 600 61- 681 688
- [003] 014 028 04- 074 076 081 153 175 185 191 231 316 332 341 359 398
402 408 409 414 42- 431 432 443 445 473 477 48- 51& 52& 532 533 54&
541 549 57& 57- 575 583 589 595 597 600 61- 681 688
- [004] 014 028 034 04- 074 081 153 175 185 191 231 316 332 341 359 398
402 408 409 414 42- 431 432 443 445 473 477 48- 51& 52& 532 533 54&
541 549 57& 57- 575 583 589 595 597 600 61- 681 688
- [005] 014 028 04- 140 153 175 185 191 231 316 332 341 359 398 402 408
409 414 42- 431 432 443 445 473 477 48- 51& 52& 532 533 54& 541 549
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AP - JP19860067294 19860327; JP19860067294 19860327; [Based on J62225244]
CPY - JAPC

DC - A14 A91 J01

DR - 0270-U 0798-U 1740-U

FS - CPI

IC - B01D53/34 ; B01J20/26 ; C02F1/28 ; C08G73/02 ; C08K5/00 ; C08L79/02

KS - 0013 0036 0211 0231 0304 0486 0487 0493 0500 1277 2020 2198 2285 2300
2318 2386 2393 2422 2427 2437 2440 2493 2507 2509 2569 2585 2609 2653
2708 2718 2726 2729 3124 3193 3217 3252

MC - A05-J07 A11-C01 A12-W11D J01-E03C

PA - (JAPC) NIPPON SHOKUBAI KAGAKU KOGYO CO LTD

PN - JP62225244 A 19871003 DW198745 006pp

- JP5021625B B 19930325 DW199315 B01J20/26 006pp

PR - JP19860067294 19860327

XA - C1987-135248

XIC - B01D-053/34 ; B01J-020/26 ; C02F-001/28 ; C08G-073/02 ; C08K-005/00 ;
C08L-079/02

AB - J62225244 The adsorbent is given as: porous supports and polyethyleneimine are mixed in a solvent (A); the solvent (a) is driven off to form polyethyleneimine adsorbed supports (I); the support (I) and cross-linking agents (II) are mixed in a non-aq. solvent (B), if necessary heated; then the solvent (B) is removed. Activated alumina, silicic acid gel, or organic structures of styrene, acryl or phenol resin having more than 100 m²/g specific surface area is usable as the porous supports. Solvent (A) is water, aliphatic alcohols, ketones, or cellosolves. Solvent (B) is aliphatic alcohols, ketones, esters, ethers, or aliphatic, aromatic or halogenated hydrocarbons. (II) is glutaraldehyde, epichlorhydrin, toluidineisocyanate, and others.

- USE/ADVANTAGE - Used to remove pollutants like acid gases, odour, surfactants or heavy metal ions. Polyethyleneimine is adhered to the supports so firmly that it can be used in water.

- In an example 100 pts. wt. of porous (meth)acrylic resin having 450 m²/g specific surface area and 43 pts. wt. of polyethyleneimine having 1800 average molecular weight were mixed in 100 ml. of

MeOH was evaporated; 100 pts. wt. of thus treated supports were mixed with 300 pts. wt. MeOH and a soln. dissolving 22.3 pts. wt. of a 25 wt.% of glutaraldehyde soln. in 400 pts. wt. MeOH was dropped; 30.5 pts. wt. of polyethyleneimine were loaded on the supports.(0/1)

IW - POLYETHYLENEIMINE LOAD POROUS ADSORB POLYETHYLENE IMINE ADHERE POROUS SUPPORT REMOVE ACID POLLUTION GAS ODOUR SURFACTANT HEAVY METAL ION

IKW - POLYETHYLENEIMINE LOAD POROUS ADSORB POLYETHYLENE IMINE ADHERE POROUS SUPPORT REMOVE ACID POLLUTION GAS ODOUR SURFACTANT HEAVY METAL ION

NC - 001

OPD - 1986-03-27

ORD - 1987-10-03

PAW - (JAPC) NIPPON SHOKUBAI KAGAKU KOGYO CO LTD

TI - Polyethyleneimine loaded porous adsorbent - where polyethylene:imine is adhered to porous supports to remove acid pollutant gases, odours, surfactants, heavy metal ions etc.